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Wheat & Barley Varieties
Montana - 1996

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TABLE OF CONTENTS

Foreword 1

Winter Wheat Varieties 2
Percent of Total Seeded Acreage 1990-96 & Seeded Acreage
Major Winter Wheat Varieties as Percent of Total 1990-96 3

Winter Wheat Varieties: 1996 Seeded Acreage &
Percent of Total by Districts 4

Top Three Winter Wheat Varieties - Percent by District
1996 Winter Wheat Varieties 5

Spring Wheat Varieties 6
Percent of Total Seeded Acreage 1990-96 & Seeded Acreage
Major Spring Wheat Varieties as Percent of Total 1990-96 7

Spring Wheat Varieties: 1996 Seeded Acreage &
Percent of Total by Districts 8

Top Three Spring Wheat Varieties - Percent by District
1996 Spring Wheat Varieties 9

Durum Wheat Varieties 10
Percent of Total Seeded Acreage 1990-96 & Seeded Acreage
1996 Seeded Acreage & Percent of Total by Districts 11

Major Durum Wheat Varieties as Percent of Total 1990-96
1996 Durum Wheat Varieties 12

Barley Varieties 13
Percent of Total Seeded Acreage 1990-96 & Seeded Acreage
Major Barley Varieties as Percent of Total 1990-96 14

Montana Barley Varieties: 1996 Seeded Acreage &
Percent of Total by Districts 15

Top Three Barley Varieties - Percent Planted by District
1996 Barley Varieties 16

Montana's Rank 17

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Foreword

This publication is the result of a June survey of Montana grain growers. It contains names, characteristics and production records of the leading varieties in Montana in 1996. We wish to thank the many farmers who voluntarily provided us with variety information.

Funding for the barley varieties survey was provided by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. The wheat variety survey was funded by the Montana Wheat & Barley Committee. Montana State University provided varietal characteristic information.

Plant researchers continually develop new grain varieties with promise of higher yields, improved baking and milling qualities and increased insect and disease resistance. Montana farmers test these new varieties in their fields with hopes of increasing their overall farm profits. Shifts occur in the acres of varieties planted as farmers discover what works or doesn't work for them

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WINTER WHEAT

Neeley continued to be the leading variety of winter wheat seeded in Montana for the ninth consecutive year. More than a quarter of the total winter wheat acreage in the state was seeded to Neeley. It is a hard red winter wheat that generally has 1 to 3 percent lower protein than most recommended hard red winter wheats. Neeley has satisfactory milling and baking qualities.

Tiber moved up to second place this year from its third place position a year ago. It accounted for almost one sixth of the winter wheat planted in the state, nearly doubling in planted acreage from last year. A hard red winter wheat, Tiber has high yield potential, good shatter resistance and good winter hardiness. Tiber has average milling and baking qualities.

Rocky fell one position into third place this year even though Montana farmers planted more than 305 thousand acres this season. It is a hard red winter wheat that has superior yields under most conditions. Rocky has average milling and baking qualities.

Redwin maintained its fourth place position for the third consecutive year, accounting for nearly 12 percent of the winter wheat acreage in Montana. It has excellent protein levels, good yield potential and winter hardiness and is shatter and lodging resistant. Redwin has very good milling and baking qualities.

These top four varieties accounted for 67 percent of the winter wheat acreage seeded in 1996 compared with 61 percent for the same varieties in 1995.

Winter Wheat

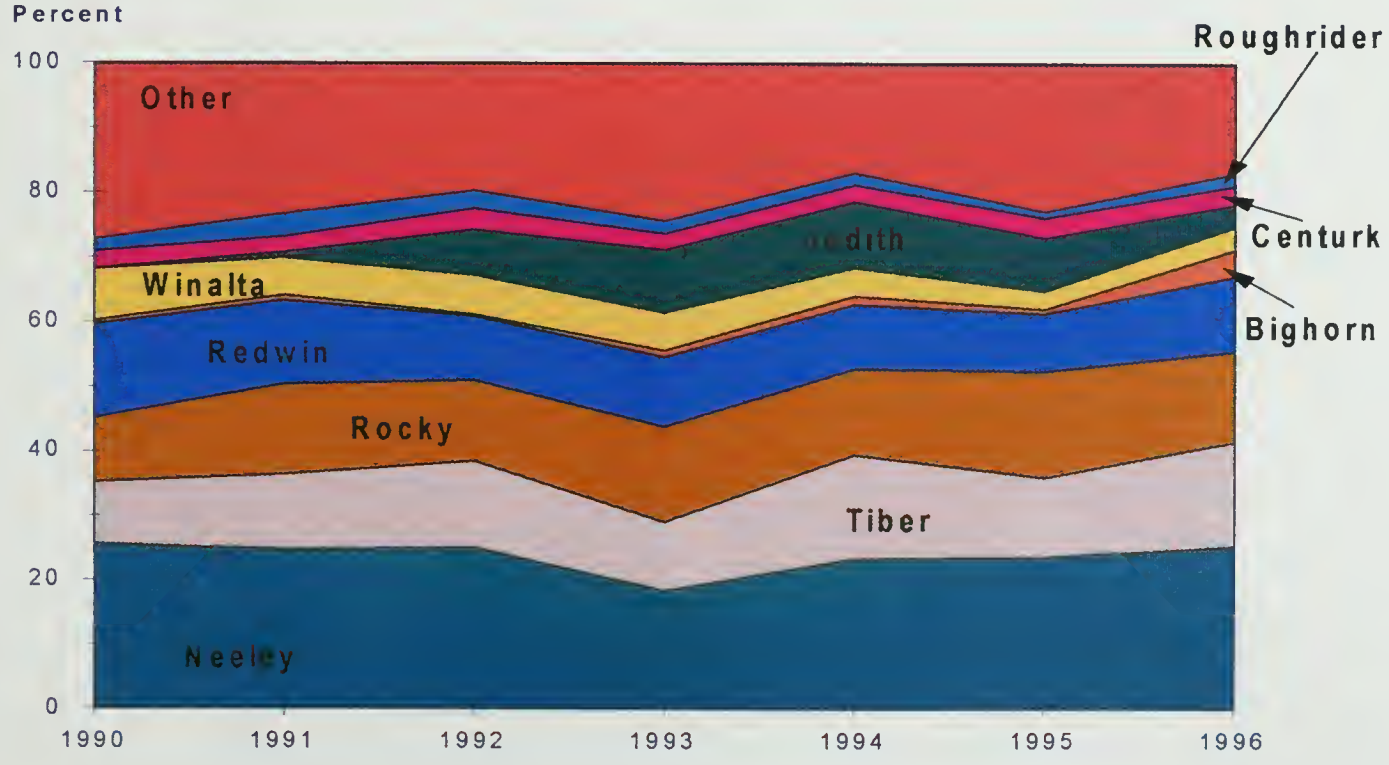
Percent of Total Seeded Acreage 1990-1996 & Seeded Acreage 1995-96

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1990	1991	1992	1993	1994	1995[1]	1996	1995[1]	1996
Neeley	25.7	24.7	25.0	18.4	23.3	23.6	25.4	353.7	558.6
Tiber	9.5	11.7	13.5	10.7	16.2	12.4	16.2	186.3	356.8
Rocky	9.9	14.0	12.5	14.8	13.3	16.5	13.9	247.7	305.1
Redwin	14.5	13.0	9.9	10.8	10.0	8.9	11.7	133.4	256.5
Bighorn	0.6	0.8	0.3	1.0	1.3	0.7	4.1	11.0	90.8
Winalta	8.0	5.8	6.1	5.8	4.4	2.8	3.5	42.2	76.8
Judith	0.1	0.8	7.0	9.8	10.2	8.2	3.5	123.7	76.6
Centurk	2.7	2.4	3.3	2.4	2.6	3.1	2.9	46.7	63.3
Roughrider	1.9	3.6	2.8	2.0	1.8	1.0	2.0	15.4	44.0
Norstar	6.9	6.6	7.6	6.4	2.0	4.0	1.7	60.5	36.4
Kestrel	--	--	--	--	0.1	0.4	1.4	6.7	30.3
Hill 81[2]	--	--	--	--	0.5	0.2	0.9	3.2	19.4
Hawk	0.7	0.9	1.0	1.0	0.9	2.4	0.9	36.5	18.7
Stephens[2]	0.3	0.2	0.2	0.6	0.2	0.9	0.7	13.5	15.4
Weston	1.6	1.8	0.6	0.2	1.1	0.6	0.7	9.7	14.4
Sierra	--	--	--	0.1	0.2	0.1	0.6	1.8	13.9
Quantum 542	--	--	--	0.3	1.1	1.8	0.6	26.3	12.8
Cimmaron	0.1	0.6	1.0	0.6	0.6	1.2	0.5	17.6	11.1
Cree	3.9	2.0	0.8	0.6	0.3	0.5	0.5	7.2	10.9
Warrior	1.1	0.4	0.7	1.1	1.7	0.7	0.5	9.8	10.1
Manning	--	--	--	0.1	--	--	0.3	--	7.1
Lewjain[2]	0.2	0.1	0.1	0.1	0.1	--	0.3	--	6.6
Sage	1.5	0.3	0.4	0.1	--	0.1	0.3	1.1	6.6
Rose	--	0.1	0.1	0.1	0.8	--	0.3	--	6.5
Other & Unknown	10.8	10.2	7.1	13.0	7.3	9.9	6.6	146.0	151.3
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1500.0	2200.0

[1] Revised [2] Soft White Wheat

Winter Wheat

Major Varieties as Percent of Total



Winter Wheat

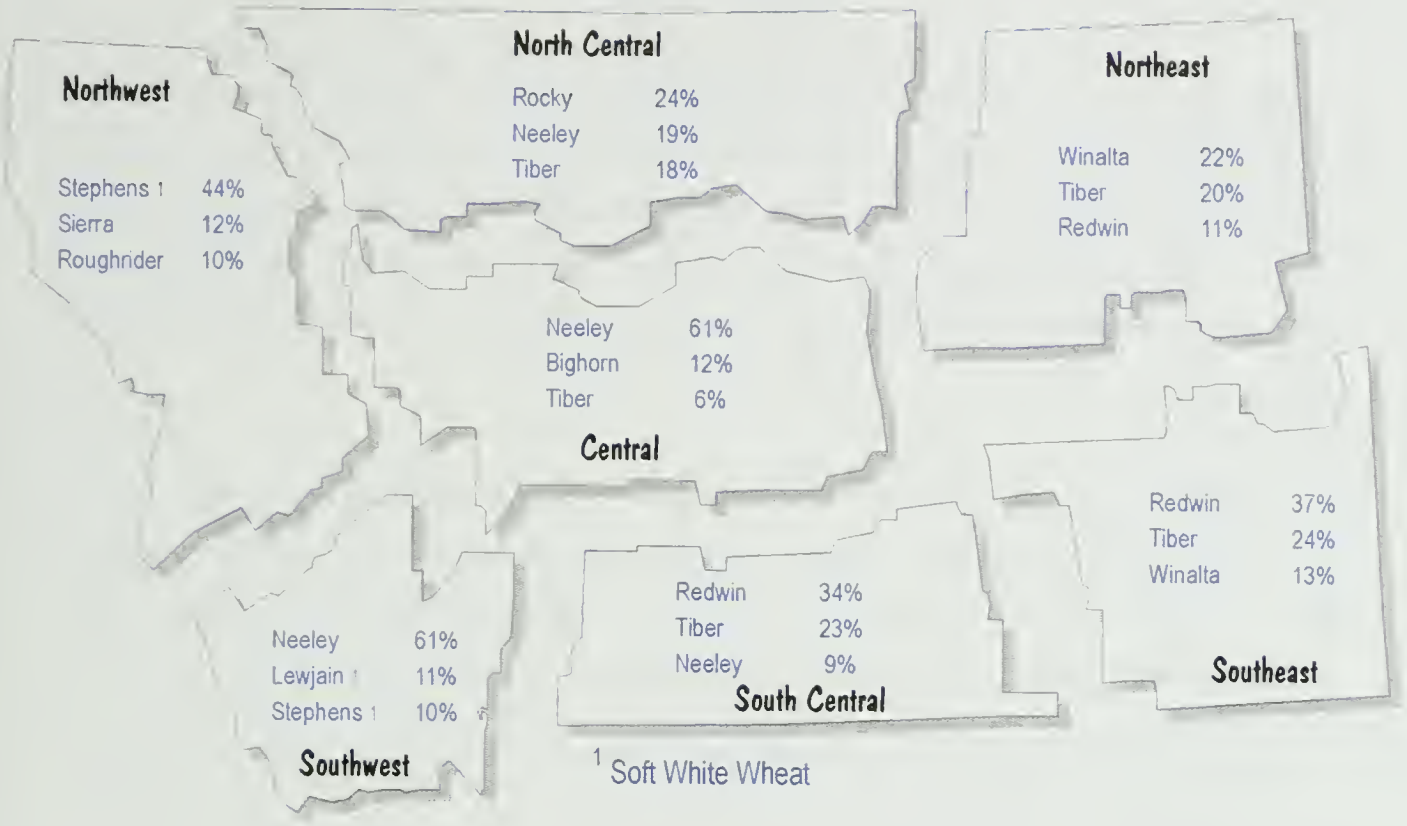
Seeded Acreage and Percent of Total by Districts - 1996

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Neeley	2.0	7.9	210.9	19.0	8.7	5.1	275.0	61.1	24.4	60.9	21.7	8.5	15.9	10.6	558.6	25.4
Tiber	--	--	199.8	18.0	34.0	20.0	27.0	6.0	1.5	3.8	58.9	23.1	35.6	23.7	356.8	16.2
Rocky	--	--	267.5	24.1	1.2	0.7	20.3	4.5	--	--	16.1	6.3	--	--	305.1	13.9
Redwin	--	--	85.5	7.7	18.7	11.0	10.4	2.3	--	--	86.2	33.8	55.7	37.1	256.5	11.7
Bighorn	--	--	33.3	3.0	1.7	1.0	55.8	12.4	--	--	--	--	--	--	90.8	4.1
Winalta	--	--	20.0	1.8	36.6	21.5	0.5	0.1	--	--	--	--	19.7	13.1	76.8	3.5
Judith	0.1	0.4	65.5	5.9	0.5	0.3	9.0	2.0	1.0	2.4	0.5	0.2	--	--	76.6	3.5
Centurk	--	--	58.8	5.3	--	--	3.2	0.7	--	--	0.8	0.3	0.5	0.3	63.3	2.9
Roughrider	2.4	9.6	25.5	2.3	14.3	8.4	--	--	--	--	--	--	1.8	1.2	44.0	2.0
Norstar	--	--	28.9	2.6	7.5	4.4	--	--	--	--	--	--	--	--	36.4	1.7
Kestrel	--	--	16.7	1.5	13.6	8.0	--	--	--	--	--	--	--	--	30.3	1.4
Hill 81 [1]	--	--	--	--	--	--	19.4	4.3	--	--	--	--	--	--	19.4	0.9
Hawk	--	--	10.0	0.9	--	--	--	--	--	--	8.7	3.4	--	--	18.7	0.9
Stephens [1]	11.0	44.0	--	--	--	--	--	--	4.1	10.3	0.3	0.1	--	--	15.4	0.7
Weston	--	--	1.1	0.1	--	--	--	--	--	--	13.3	5.2	--	--	14.4	0.7
Sierra	2.9	11.7	1.1	0.1	--	--	--	--	--	--	9.9	3.9	--	--	13.9	0.6
Quantum 542	--	--	4.4	0.4	--	--	2.3	0.5	--	--	6.1	2.4	--	--	12.8	0.6
Cimmaron	--	--	11.1	1.0	--	--	--	--	--	--	--	--	--	--	11.1	0.5
Cree	--	--	10.0	0.9	--	--	0.9	0.2	--	--	--	--	--	--	10.9	0.5
Warrior	--	--	1.1	0.1	--	--	--	--	--	--	--	--	9.0	6.0	10.1	0.5
Manning	--	--	--	--	--	--	--	--	--	--	7.1	2.8	--	--	7.1	0.3
Lewjain [1]	2.2	8.9	--	--	--	--	--	--	4.4	11.0	--	--	--	--	6.6	0.3
Sage	--	--	--	--	6.6	3.9	--	--	--	--	--	--	--	--	6.6	0.3
Rose	--	--	--	--	--	--	--	--	--	--	--	--	6.5	4.3	6.5	0.3
Other & Unknown	4.4	17.5	58.8	5.3	26.6	15.7	26.2	5.9	4.6	11.6	25.4	10.0	5.3	3.7	151.3	6.6
State Total	25.0	100.0	1,110.0	100.0	170.0	100.0	450.0	100.0	40.0	100.0	255.0	100.0	150.0	100.0	2,200.0	100.0

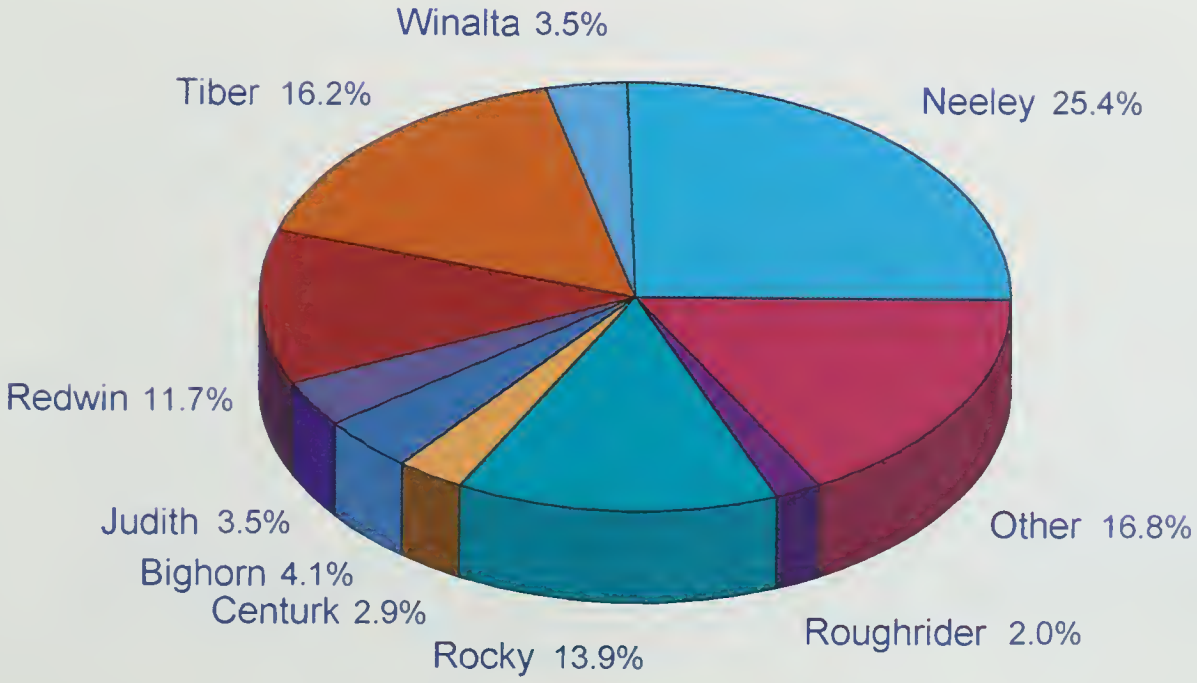
[1] Soft White Wheat

Top Three Winter Wheat Varieties

Percent by District



1996 Winter Wheat Varieties



SPRING WHEAT

Amidon maintained its number one position for the fifth consecutive year although producers planted almost 50 thousand fewer acres. It accounts for 27 percent of the seeded spring wheat in Montana. Over half the Amidon was seeded in the Northeast district. Amidon has satisfactory shattering resistance and is resistant to stem and leaf rust. Amidon's baking qualities are rated as superior with satisfactory milling qualities.

Westbred Rambo retained its second place position for the seventh consecutive year, accounting for almost 11 percent of the seeded spring wheat acreage. More than 82 percent of Westbred Rambo was seeded in the North Central district of the state. It has excellent yield potential, is resistant to stem rust and very resistant to sawfly.

Grandin moved up one position from last year accounting for nearly 9 percent of the spring wheat acreage. Farmers planted 355 thousand acres of Grandin this year. It is a semi-dwarf, early maturity spring wheat that is resistant to stem and leaf rust and has high test weights and average protein rating. It has a good quality rating.

Fortuna dropped one place to the fourth position this year and accounts for nearly 7 percent of the spring wheat planted in the State. About 50 thousand fewer acres of Fortuna were seeded in 1996. A high yielding hard red spring wheat, Fortuna is resistant to the wheat stem sawfly and is resistant to leaf and stem rust. Fortuna has superior milling qualities and acceptable baking qualities.

The top four varieties accounted for 53 percent of the spring wheat acreage seeded in 1996 compared with 56 percent for the same varieties in 1995.

Spring Wheat

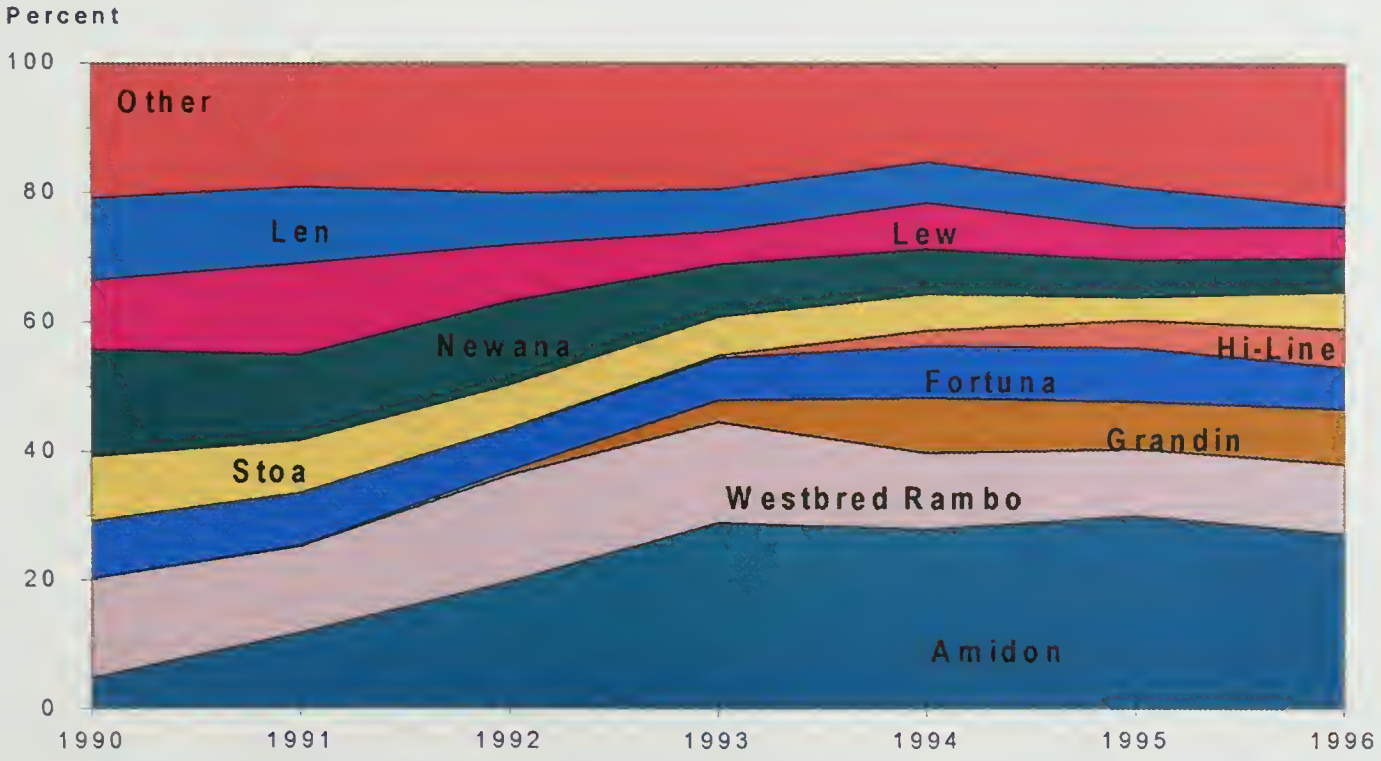
Percent of Total Seeded Acreage 1990-1996 & Seeded Acreage 1995-96

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1990	1991	1992	1993	1994	1995 [1]	1996	1995 [1]	1996
Amidon	4.7	11.7	19.6	29.0	27.9	29.9	27.1	1181.8	1137.1
Westbred Rambo	15.5	13.5	16.7	15.5	11.9	10.5	10.9	414.5	455.7
Grandin	--	0.2	0.7	3.4	8.5	7.3	8.5	289.7	355.2
Fortuna	9.0	8.2	6.6	6.6	8.0	8.3	6.5	326.8	274.9
Hi-Line	--	--	--	0.4	2.4	4.3	5.9	170.0	247.0
Stoa	10.0	8.1	6.7	5.9	5.7	3.6	5.8	141.5	245.2
Newana	16.6	13.3	12.9	8.2	6.9	5.8	5.3	228.4	223.3
Lew	10.7	14.1	8.7	5.0	7.2	4.9	4.7	193.1	195.8
Len	12.7	11.9	8.1	6.6	6.3	6.3	3.2	250.7	135.5
Westbred 926	0.3	0.7	0.9	1.5	2.0	3.0	2.6	117.4	107.8
McNeal	--	--	--	--	--	--	1.4	--	57.7
Westbred 936	--	--	--	--	0.2	0.3	1.3	13.3	55.3
Gus	--	0.1	0.1	--	--	0.6	1.2	25.5	51.0
Celtic	--	0.4	0.6	0.9	1.5	1.2	1.0	49.3	39.9
Border	--	--	--	--	--	0.2	1.0	6.3	39.9
Pondera	2.2	0.8	1.5	0.5	0.9	0.7	0.7	26.5	29.3
Butte 86	0.4	2.0	0.5	0.4	0.1	0.9	0.7	34.7	28.2
Fergus	--	--	--	--	--	0.2	0.6	7.8	24.1
Krona	--	--	--	--	--	0.2	0.6	8.5	23.3
Bergen	--	--	--	--	--	--	0.5	--	21.7
Leader	0.7	0.4	1.1	0.4	0.7	0.1	0.5	3.1	18.9
Northrup King 751	1.3	0.8	1.1	1.1	0.6	0.4	0.4	16.5	18.2
Kulm	--	--	--	--	--	--	0.4	--	18.1
Olaf	4.5	3.6	2.7	2.8	2.2	1.1	0.4	45.1	18.0
Other & Unknown	11.4	10.2	11.5	11.8	7.0	10.2	8.8	399.5	378.9
State Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	3950.0	4200.0

[1] Revised

Spring Wheat

Major Varieties as Percent of Total



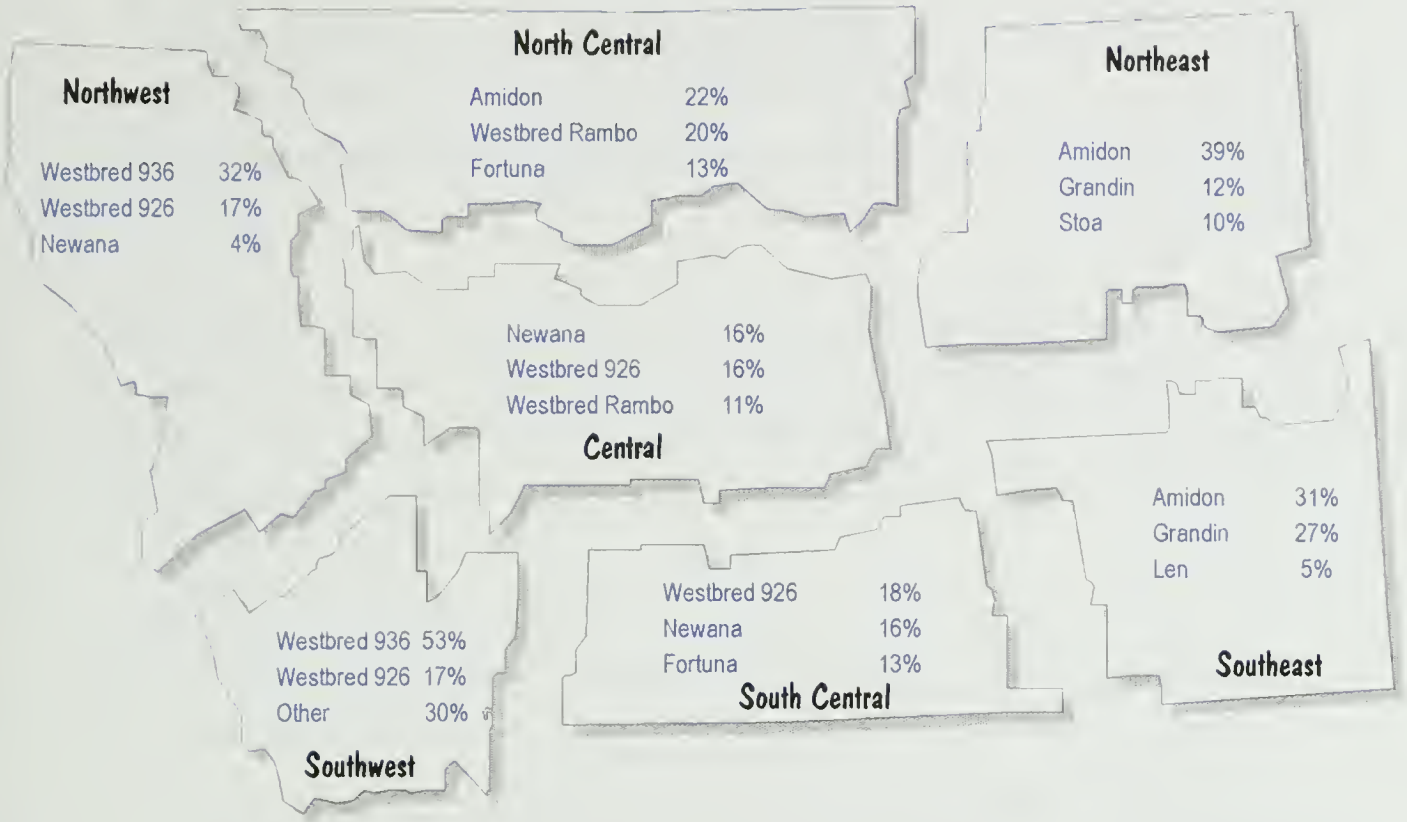
Spring Wheat

Seeded Acreage and Percent of Total by Districts - 1996

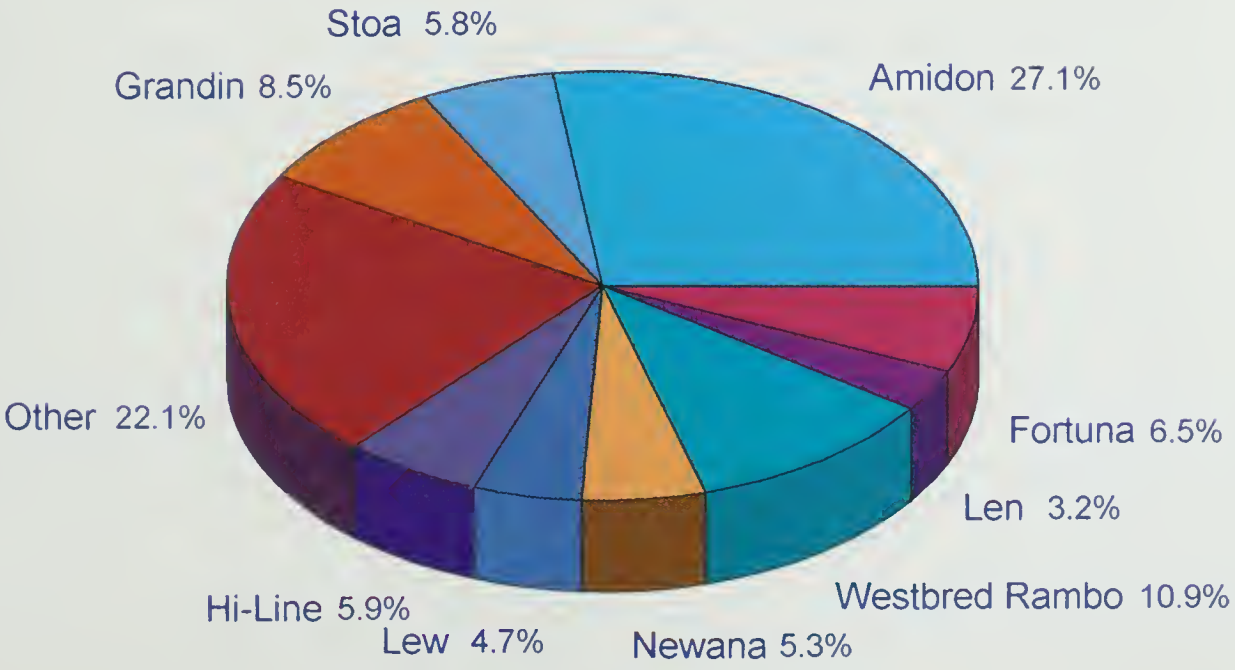
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Amidon	--	--	412.3	21.7	609.2	39.3	28.7	8.2	--	--	9.6	11.3	77.3	30.9	1,137.1	27.1
Westbred Rambo	--	--	374.3	19.7	41.9	2.7	39.2	11.2	--	--	0.3	0.3	--	--	455.7	10.9
Grandin	--	--	89.3	4.7	179.8	11.6	16.5	4.7	--	--	2.3	2.7	67.3	26.9	355.2	8.5
Fortuna	--	--	245.1	12.9	4.7	0.3	13.3	3.8	--	--	11.0	12.9	0.8	0.3	274.9	6.5
Hi-Line	1.0	4.1	146.3	7.7	54.3	3.5	35.0	10.0	--	--	3.4	4.0	7.0	2.8	247.0	5.9
Stoa	--	--	89.3	4.7	153.5	9.9	--	--	--	--	1.4	1.7	1.0	0.4	245.2	5.8
Newana	1.1	4.3	121.6	6.4	24.8	1.6	56.4	16.1	--	--	13.4	15.8	6.0	2.4	223.3	5.3
Lew	0.1	0.3	148.2	7.8	40.3	2.6	1.8	0.5	--	--	4.6	5.4	0.8	0.3	195.8	4.7
Len	--	--	--	--	122.5	7.9	0.7	0.2	--	--	--	--	12.3	4.9	135.5	3.2
Westbred 926	4.2	16.8	20.9	1.1	--	--	55.3	15.8	6.8	16.9	15.6	18.4	5.0	2.0	107.8	2.6
McNeal	--	--	26.6	1.4	10.9	0.7	14.7	4.2	--	--	3.7	4.4	1.8	0.7	57.7	1.4
Westbred 936	8.0	31.9	19.0	1.0	--	--	3.2	0.9	21.3	53.2	2.5	2.9	1.3	0.5	55.3	1.3
Gus	0.3	1.1	3.8	0.2	41.9	2.7	--	--	--	--	--	--	5.0	2.0	51.0	1.2
Celtic	--	--	--	--	27.9	1.8	--	--	--	--	--	--	12.0	4.8	39.9	1.0
Border	--	--	39.9	2.1	--	--	--	--	--	--	--	--	--	--	39.9	1.0
Pondera	--	--	11.4	0.6	--	--	17.9	5.1	--	--	--	--	--	--	29.3	0.7
Butte 86	--	--	--	--	21.7	1.4	2.5	0.7	--	--	--	--	4.0	1.6	28.2	0.7
Fergus	--	--	3.8	0.2	--	--	14.7	4.2	--	--	5.6	6.6	--	--	24.1	0.6
Krona	--	--	17.1	0.9	6.2	0.4	--	--	--	--	--	--	--	--	23.3	0.6
Bergen	--	--	--	--	21.7	1.4	--	--	--	--	--	--	--	--	21.7	0.5
Leader	--	--	3.8	0.2	9.3	0.6	--	--	--	--	--	--	5.8	2.3	18.9	0.5
Northrup King 751	--	--	13.3	0.7	1.6	0.1	--	--	--	--	3.3	3.9	--	--	18.2	0.4
Kulm	--	--	--	--	17.1	1.1	--	--	--	--	0.2	0.2	0.8	0.3	18.1	0.4
Olaf	--	--	3.8	0.2	10.9	0.7	--	--	--	--	--	--	3.3	1.3	18.0	0.4
Other & Unknown	10.3	41.5	110.2	5.8	149.8	9.7	50.1	14.4	11.9	29.9	8.1	9.5	38.5	15.6	378.9	8.8
State Total	25.0	100.0	1,900.0	100.0	1,550.0	100.0	350.0	100.0	40.0	100.0	85.0	100.0	250.0	100.0	4,200.0	100.0

Top Three Spring Wheat Varieties

Percent by District



1996 Spring Wheat Varieties



Kyle maintained its position as the top durum variety for the third year. It accounts for over one fifth of the durum acreage. Developed in Canada and released in 1984, it is resistant to prevalent races of leaf and stem rust. It has an overall quality rating of good.

Monroe moved up one place into second position this year, accounting for almost 20 percent of the durum acreage. Monroe is resistant to prevalent races of stem rust and moderately resistant to prevalent races of leaf rust. It also has high yields and matures early which makes it a well-suited wheat variety for growing in durum areas.

Vic dropped one place into third position this year. It accounts for about 13 percent of the durum acreage. It is a standard height, day length sensitive spring durum and in addition has strong straw. Vic is resistant to stem rust and moderately resistant to leaf rust. The milling, processing and cooking properties of Vic are satisfactory.

Renville retained its fourth place finish from a year ago accounting for about 9 percent of the durum acreage. It has shown good resistance to stem and leaf rust and in trials has high test weights with yields much more than Vic. Renville has good milling characteristics and the spaghetti color and cooking characteristics are acceptable.

These top four varieties accounted for 62 percent of the durum wheat acreage seeded in 1995 and 1996.

Durum Wheat

1996 Seeded Acreage and Percent of Total by Districts

Variety	Northeast		Other Districts		State	
	(000)	%	(000)	%	(000)	%
Kyle	39.3	20.9	7.4	17.6	46.7	20.3
Monroe	43.6	23.2	2.1	5.0	45.7	19.9
Vic	30.6	16.3	--	--	30.6	13.3
Renville	18.4	9.8	1.8	4.3	20.2	8.8
Crosby	17.3	9.2	--	--	17.3	7.5
Plenty	14.5	7.7	1.5	3.6	16.0	7.0
Ward	9.6	5.1	3.0	7.1	12.6	5.5
Sceptre	2.3	1.2	5.9	14.0	8.2	3.6
Westbred Laker	1.9	1.0	6.2	14.8	8.1	3.5
Medora	4.9	2.6	0.5	1.2	5.4	2.3
Durex	--	--	2.1	5.0	2.1	0.9
Kemut	1.1	0.6	--	--	1.1	0.5
Westbred 881	--	--	0.5	1.2	0.5	0.2
Other & Unknown	4.5	2.4	11.0	26.2	15.5	6.7
State Total	188.0	100.0	42.0	100.0	230.0	100.0

Durum Wheat

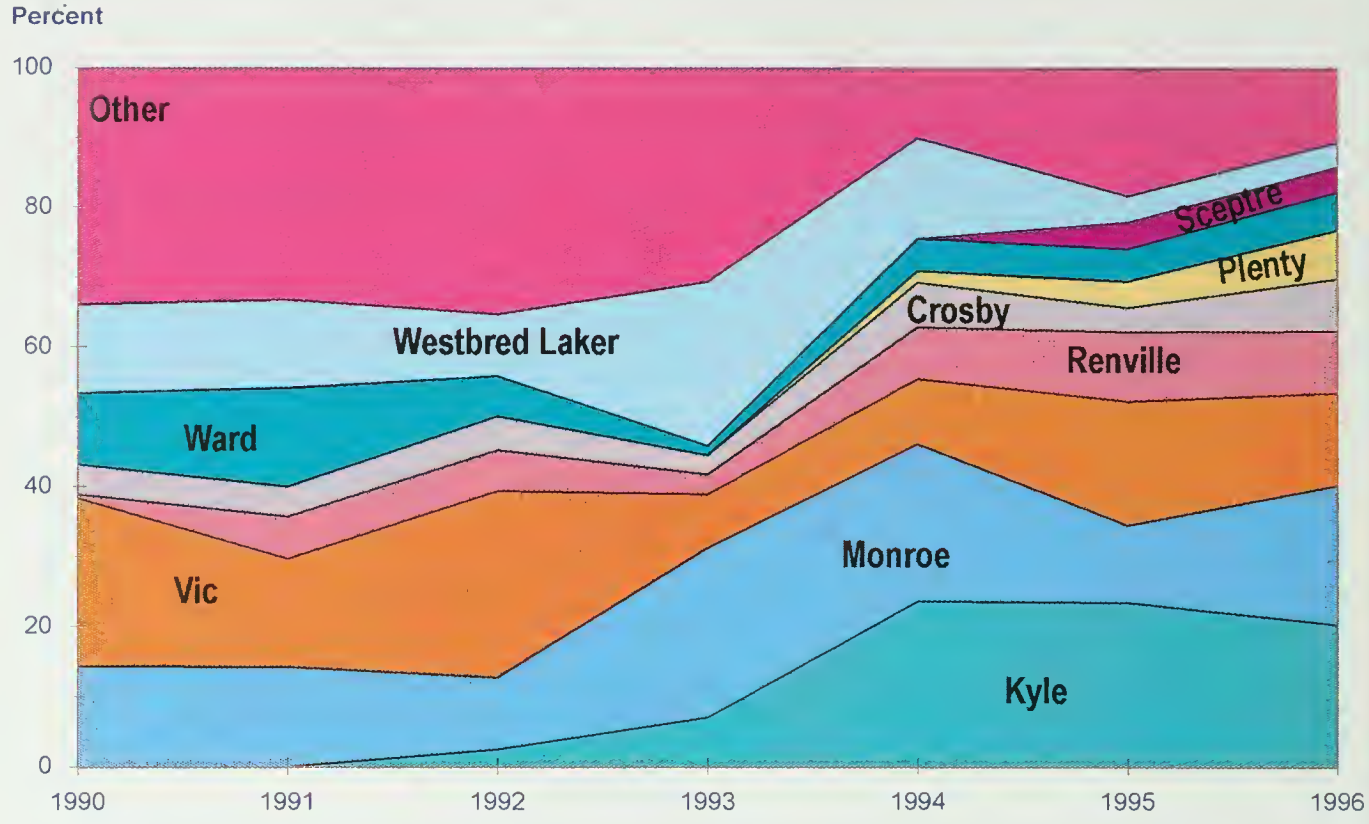
Percent of Total Seeded Acreage 1990-1996 & Seeded Acreage 1995-96

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1990	1991	1992	1993	1994	1995 [1]	1996	1995 [1]	1996
Kyle	--	--	2.4	7.0	23.6	23.4	20.3	63.1	46.7
Monroe	14.3	14.2	10.3	24.2	22.5	11.1	19.9	30.0	45.7
Vic	24.0	15.5	26.6	7.7	9.3	17.7	13.3	47.9	30.6
Renville	0.6	6.0	5.9	2.8	7.4	10.0	8.8	26.9	20.2
Crosby	4.3	4.3	4.8	2.8	6.4	3.5	7.5	9.4	17.3
Plenty	--	--	--	--	1.7	3.7	7.0	10.1	16.0
Ward	10.2	14.1	5.8	1.3	4.6	4.7	5.5	12.7	12.6
Sceptre	--	0.1	--	--	--	3.8	3.6	10.2	8.2
Westbred Laker	12.7	12.6	8.9	23.5	14.5	3.8	3.5	10.2	8.1
Medora	19.0	14.0	20.8	18.0	3.4	6.0	2.3	16.3	5.4
Durex	--	--	--	--	--	--	0.9	--	2.1
Kemut	--	--	--	--	1.1	0.3	0.5	0.7	1.1
Westbred 881	--	--	--	--	--	--	0.2	--	0.5
Other & Unknown	14.9	19.2	14.5	12.7	5.5	12.0	6.7	32.5	15.5
State Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	270.0	230.0

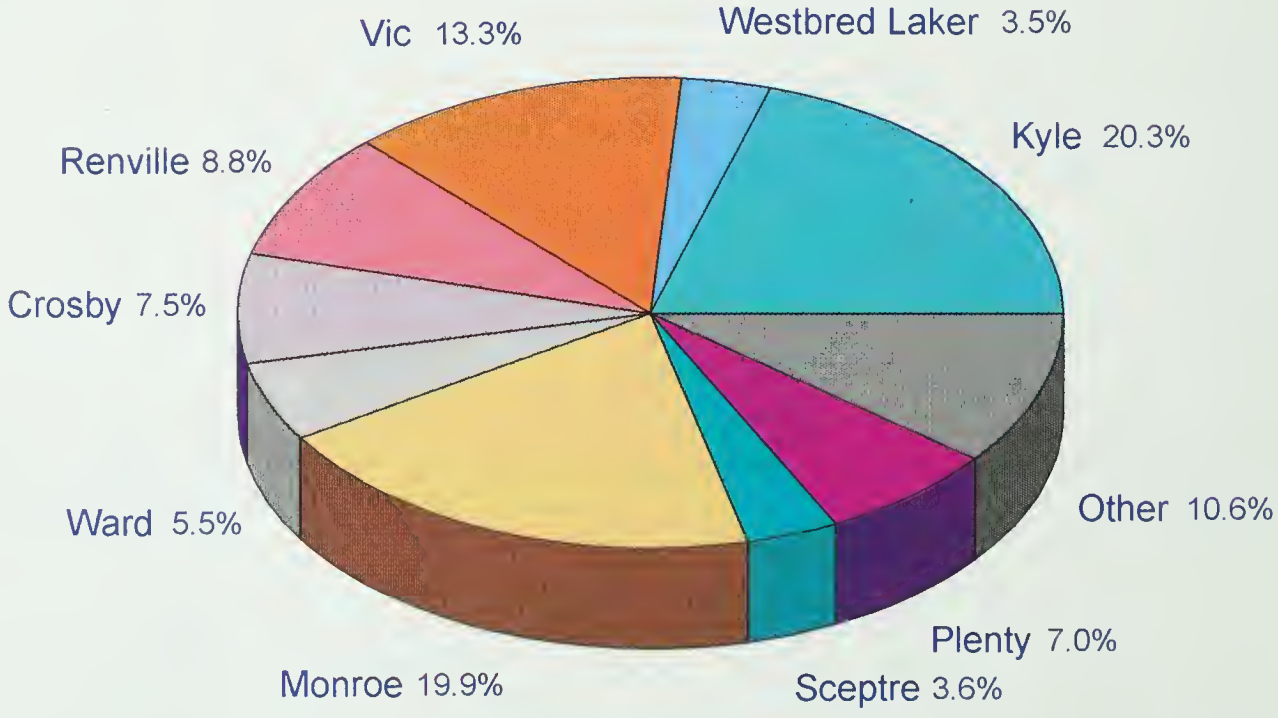
[1] Revised

Durum Wheat

Major Varieties as Percent of Total



1996 Durum Wheat Varieties



Barley

Montana farmers planted 1.3 million acres of barley in 1996, unchanged from last year. Malting and brewing varieties recommended by the American Malting Barley Association accounted for about 43 percent of the barley planted. For the third consecutive year Harrington maintained its top position as the leading barley variety seeded in Montana.

Malting-type Barley Varieties

Harrington was the top barley variety planted. It accounted for nearly one third of all the barleys planted and three quarters of the varieties recommended by the American Malting Barley Association. It increased in acreage by nearly 100 thousand acres from a year ago. It is a two-row variety with good straw strength and test weight and in addition has good malting qualities. The North Central district continues to be the largest grower of Harrington where over 75 percent of the Harrington acreage is seeded.

B1202 retained its second place position from a year ago for malting-type barley varieties despite decreasing in total acreage planted. It accounted for about 5 percent of the total barley acreage seeded and about 12 percent of the varieties recommended by the American Malting Barley Association. It is a two-rowed barley that has good straw strength and average lodging resistance.

Moravian III moved up to third position. It accounted for about 2 percent of the barley acreage planted and about 4 percent of the varieties recommended by the American Malting Barley Association. Moravian III is a two-row barley that has intermediate lodging resistance and high disease resistance.

B2601 dropped to fourth place this year accounting for just over 1 percent of the barley acreage and 3 percent of the varieties recommended by the American Malting Barley Association. It is a 6-row barley with excellent lodging resistance and good test weight under irrigation.

Feed-type Varieties

Baronesse moved into the top position among feed-type barleys. It accounted for over 12 percent of the barley seeded and over one fifth of the feed-type barley. It is a two-row barley with good straw strength and excellent yields. Developed in Germany, it is medium short in height and medium in maturity.

Hector moved down into second place among feed-type barleys from a year ago. It accounts for about 10 percent of the barley planted and about 18 percent of the feed-type barley. It is moderately resistant to stem rust. The Montana Agricultural Experiment Station has recommended Hector as a good two-rowed dryland barley.

Bowman moved up one position into third place for feed-type varieties. It accounts for 6 percent of the barley planted and over 10 percent of feed-type barley. It is a two-rowed barley which matures very early and has very good yield. Bowman was released in North Dakota and is moderately resistant to leaf diseases.

Gallatin dropped one position from a year ago to the fourth position of feed-type barleys planted. It accounts for about 6 percent of the barley planted and about 10 percent of the feed-type barley. Gallatin is a two-rowed barley that is best adapted to dryland areas and yields well under intermediate to high rainfall.

Barley

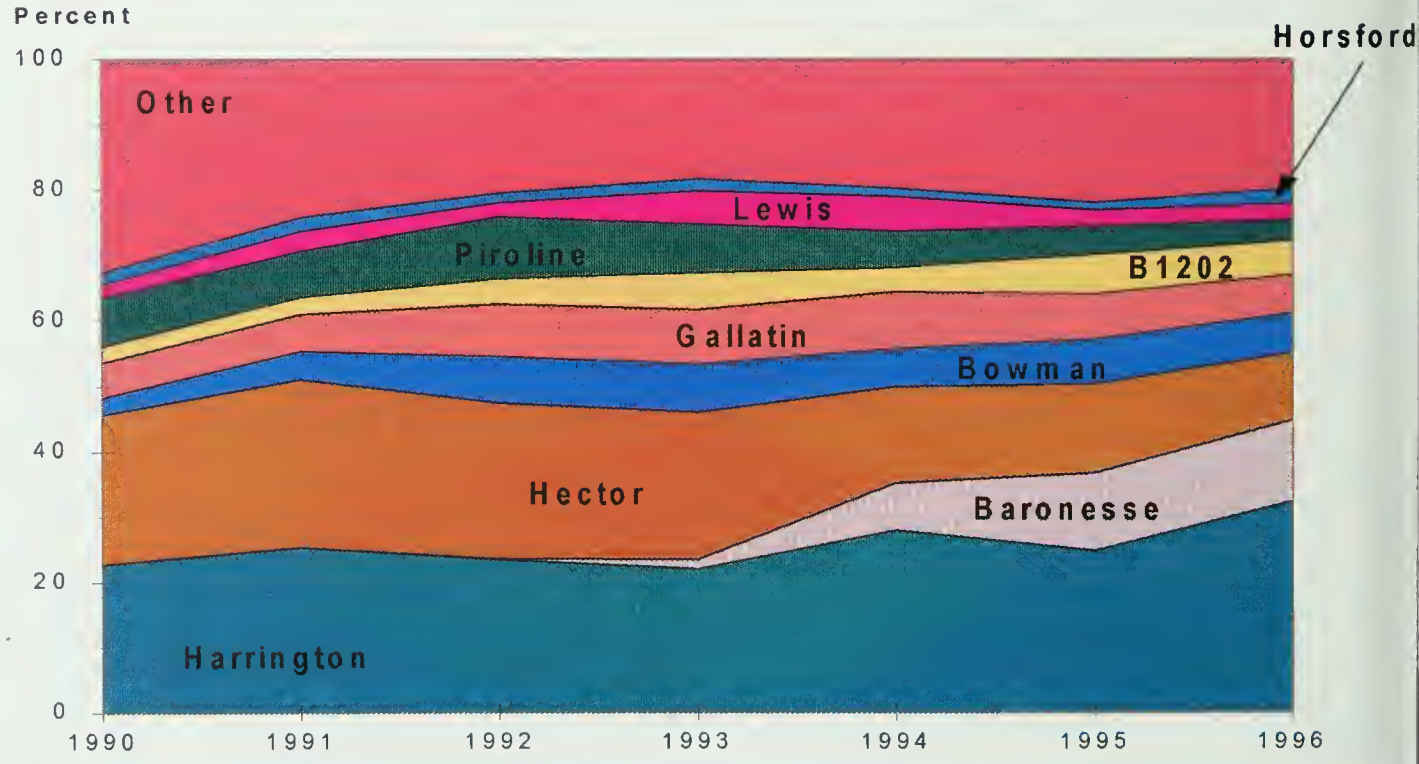
Percent of Total Seeded Acreage 1990-1996 & Seeded Acreage 1995-96

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1990	1991	1992	1993	1994	1995 [1]	1996	1995 [1]	1996
Harrington [2]	22.7	25.3	23.5	22.0	28.0	24.9	32.5	324.0	422.0
Baronesse	--	--	0.1	1.5	7.2	11.9	12.4	155.0	161.1
Hector	22.9	25.8	23.9	22.5	14.7	13.5	10.2	175.9	132.3
Bowman	2.7	4.3	7.1	7.3	5.8	6.9	6.1	90.3	78.7
Gallatin	5.4	5.6	8.0	8.4	8.8	6.9	5.8	89.4	75.9
B 1202 [2]	2.4	2.7	3.9	5.7	3.7	6.1	5.3	79.5	69.3
Piroline	7.4	7.0	9.5	7.4	5.6	4.3	3.1	55.8	40.4
Lewis	2.1	3.0	2.2	5.1	5.2	2.5	2.5	33.1	32.2
Horsford	1.8	2.2	1.4	1.9	1.3	1.2	2.3	15.8	30.1
Moravian III [2]	2.5	1.7	1.8	1.9	0.8	1.0	1.8	13.4	23.1
Clark	4.7	4.1	2.5	2.1	1.2	1.5	1.6	19.2	20.6
Haybet	--	0.1	--	--	0.7	1.5	1.4	19.2	18.5
B 2601 [2]	2.1	1.3	1.4	0.6	1.1	1.8	1.3	24.0	16.8
Galena	--	--	--	--	0.8	0.9	1.2	11.8	15.4
Menuet	1.2	1.7	1.4	0.8	1.5	0.9	1.0	12.0	13.3
Klages [2]	7.2	3.3	0.3	0.6	--	0.1	0.8	1.6	10.6
Morex [2]	4.1	4.6	3.0	2.4	2.0	0.5	0.8	6.5	9.9
Stark	--	--	--	--	0.7	0.5	0.7	6.5	9.6
Westbred Medallion	0.1	0.1	0.6	0.5	1.2	0.3	0.6	4.5	8.3
Bearpaw	--	0.2	0.8	0.3	0.9	0.3	0.6	4.3	8.2
Chinook [2]	--	--	--	--	--	--	0.5	--	6.6
Westford	--	--	--	--	0.1	0.5	0.5	6.8	6.4
Summit	0.5	--	0.3	0.4	0.5	0.2	0.4	2.1	5.6
Waxbar	0.2	0.2	--	--	--	0.3	0.3	3.5	4.3
Other & Unknown	10.0	6.8	8.3	8.6	8.2	11.5	6.3	145.8	80.8
State Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1300.0	1300.0

[1] Revised [2] Amercian Malting Barley Association, Inc. recommended for malting and brewing for Montana

Barley

Major Varieties as Percent of Total



Barley

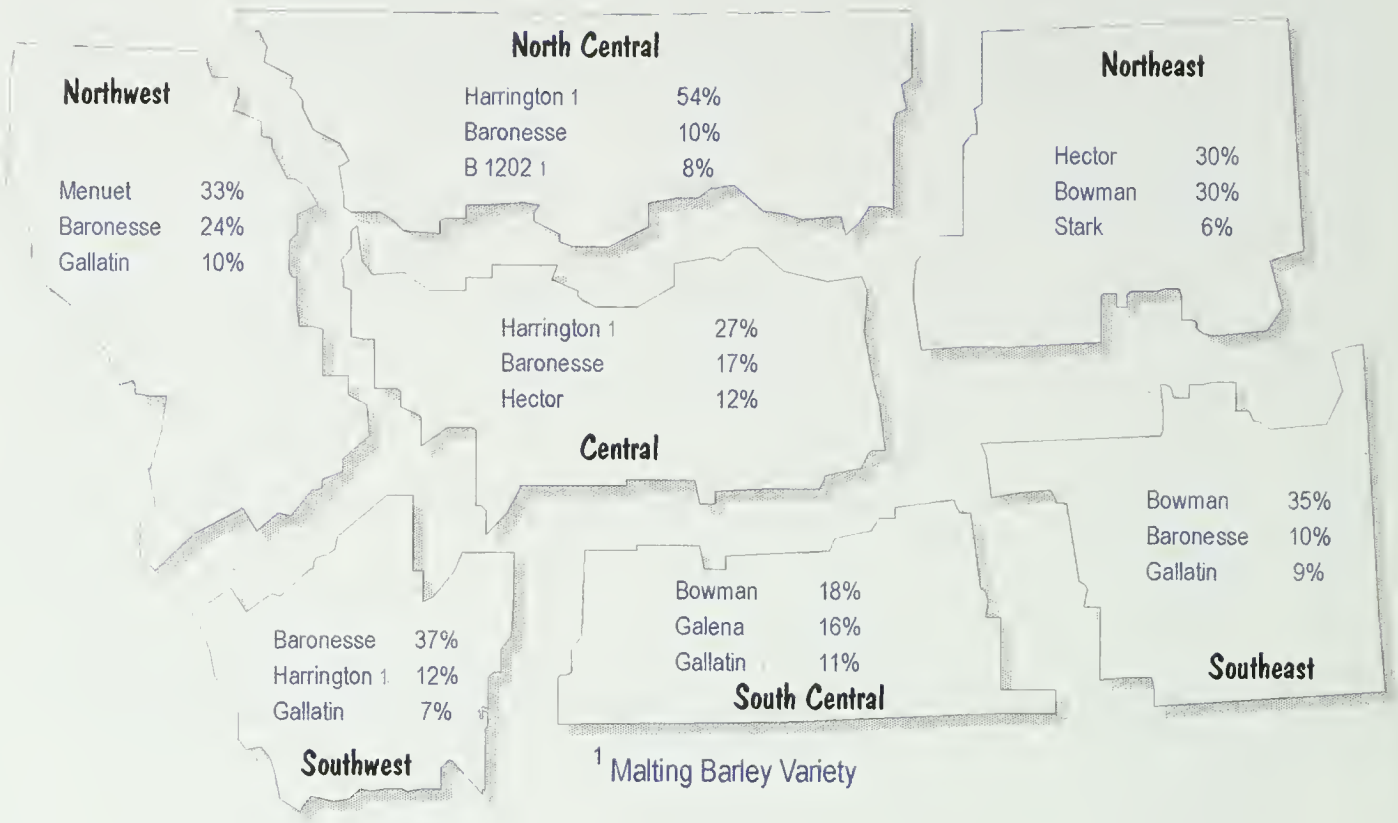
Seeded Acreage and Percent of Total by Districts - 1996

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington [1]	--	--	327.6	53.7	0.1	0.1	83.1	26.8	8.4	12.0	1.6	2.0	1.2	2.3	422.0	32.5
Baronesse	9.4	23.5	62.2	10.2	2.2	1.6	52.1	16.8	26.2	37.4	3.9	4.9	5.1	10.2	161.1	12.4
Hector	--	--	42.1	6.9	42.4	30.3	38.4	12.4	1.8	2.6	3.8	4.8	3.8	7.6	132.3	10.2
Bowman	0.4	1.1	4.3	0.7	41.3	29.5	0.9	0.3	--	--	14.2	17.7	17.6	35.2	78.7	6.1
Gallatin	4.0	10.0	15.3	2.5	--	--	38.1	12.3	5.2	7.4	8.6	10.7	4.7	9.4	75.9	5.8
B 1202 [1]	--	--	45.8	7.5	1.5	1.1	14.3	4.6	--	--	7.7	9.6	--	--	69.3	5.3
Piroline	--	--	15.3	2.5	0.7	0.5	20.2	6.5	1.5	2.2	--	--	2.7	5.3	40.4	3.1
Lewis	0.4	1.1	9.2	1.5	7.1	5.1	9.6	3.1	4.0	5.7	--	--	1.9	3.8	32.2	2.5
Horsford	1.6	3.9	3.7	0.6	1.0	0.7	16.1	5.2	3.2	4.5	2.6	3.2	1.9	3.7	30.1	2.3
Moravian III [1]	--	--	22.0	3.6	--	--	--	--	--	--	1.1	1.4	--	--	23.1	1.8
Clark	1.3	3.3	15.9	2.6	--	--	--	--	2.8	4.0	0.6	0.7	--	--	20.6	1.6
Haybet	2.8	6.9	1.2	0.2	8.1	5.8	2.5	0.8	0.7	1.0	0.6	0.7	2.6	5.2	18.5	1.4
B 2601 [1]	--	--	13.4	2.2	--	--	3.4	1.1	--	--	--	--	--	--	16.8	1.3
Galena	--	--	2.4	0.4	--	--	--	--	--	--	12.6	15.8	0.4	0.8	15.4	1.2
Menuet	13.3	33.3	--	--	--	--	--	--	--	--	--	--	--	--	13.3	1.0
Klages [1]	--	--	--	--	--	--	5.0	1.6	2.7	3.8	2.9	3.6	--	--	10.6	0.8
Morex [1]	--	--	4.9	0.8	--	--	--	--	5.0	7.1	--	--	--	--	9.9	0.8
Stark	--	--	--	--	8.4	6.0	--	--	--	--	--	--	1.2	2.4	9.6	0.7
Westbred Medallion	0.4	1.0	--	--	4.6	3.3	--	--	2.7	3.9	0.6	0.7	--	--	8.3	0.6
Bearpaw	1.7	4.3	--	--	--	--	6.5	2.1	--	--	--	--	--	--	8.2	0.6
Chinook [1]	--	--	5.5	0.9	--	--	0.9	0.3	0.2	0.3	--	--	--	--	6.6	0.5
Westford	2.8	6.9	0.6	0.1	--	--	1.2	0.4	0.4	0.6	1.4	1.8	--	--	6.4	0.5
Summit	--	--	--	--	--	--	5.6	1.8	--	--	--	--	--	--	5.6	0.4
Waxbar	--	--	1.8	0.3	--	--	2.5	0.8	--	--	--	--	--	--	4.3	0.3
Other & Unknown	1.9	4.7	16.8	2.8	22.6	16.0	9.6	3.1	5.2	7.5	17.8	22.4	6.9	14.1	80.8	6.3
State Total	40.0	100.0	610.0	100.0	140.0	100.0	310.0	100.0	70.0	100.0	80.0	100.0	50.0	100.0	1,300.0	100.0

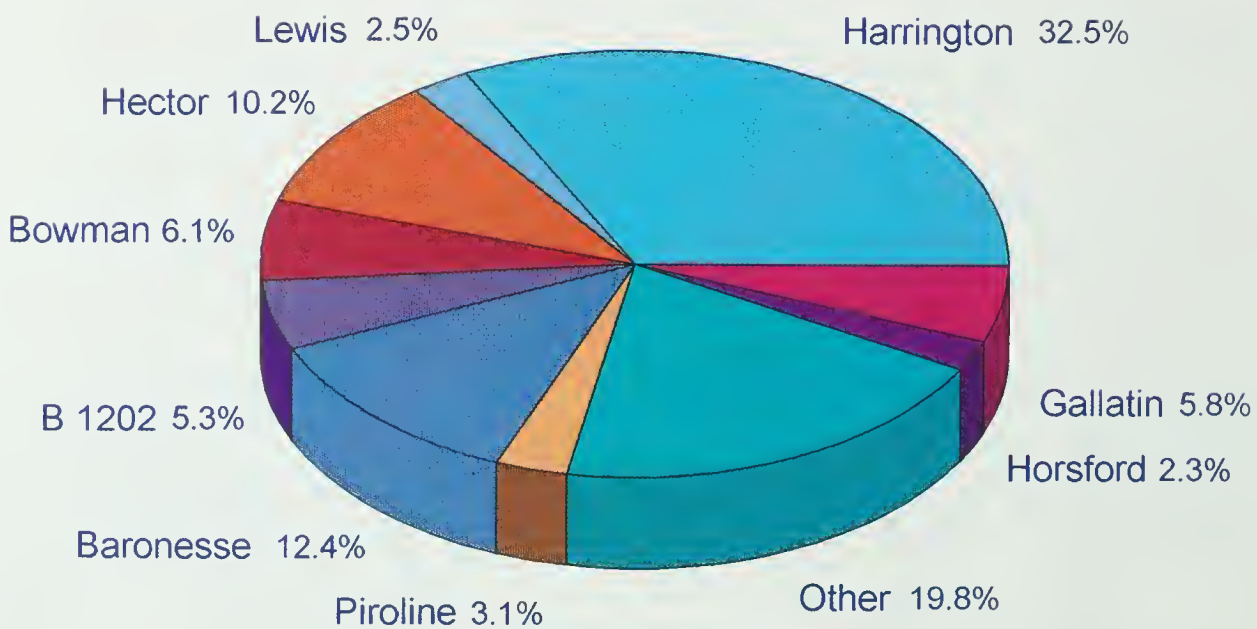
[1] American Malting Barley Association, Inc. recommended for malting and brewing for Montana

Top Three Barley Varieties

Percent by District



1996 Barley Varieties



Montana's Rank Among the Larger Winter Wheat, Spring Wheat, Durum Wheat and Barley Producing States

Winter Wheat

State	1996 Seeded Acreage (000)	Rank
Kansas	11,800	1
Oklahoma	7,000	2
Texas	6,000	3
Colorado	3,000	4
Washington	2,400	5
Nebraska	2,350	6
MONTANA	2,200	7
South Dakota	2,000	8
Illinios	1,650	9
Missouri	1,600	10
US Total	52,053	

Spring Wheat

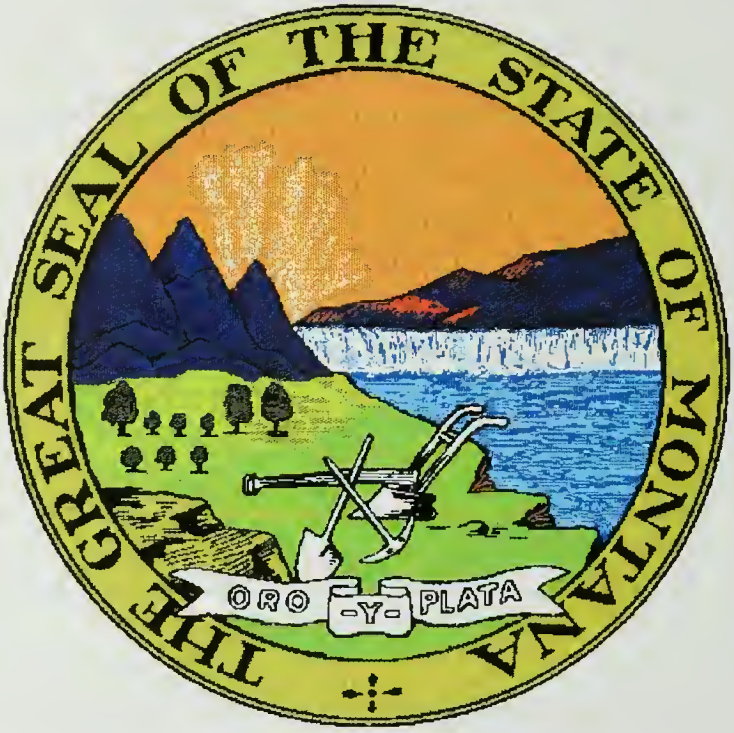
State	1996 Seeded Acreage (000)	Rank
North Dakota	9,600	1
MONTANA	4,200	2
Minnesota	2,550	3
South Dakota	2,250	4
Idaho	720	5
US Total	20,006	

Durum Wheat

State	1996 Seeded Acreage (000)	Rank
North Dakota	3,000	1
MONTANA	230	2
Arizona	160	3
California	140	4
South Dakota	25	5
US Total	3,565	

Barley

State	1996 Seeded Acreage (000)	Rank
North Dakota	2,650	1
MONTANA	1,300	2
Idaho	750	3
Minnesota	550	4
Washington	450	5
US Total	7,134	


THE GREAT SEAL OF THE STATE OF MONTANA
ORO -Y- PLATA